PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY							
To: VICTOR B. LEBOVICI WEINGARTEN, SCHURGIN, GAGNEBIN & LEBOVICI, LLP			PCT				
TEN POST OFFICE SQUARE BOSTON, MA 02109			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
			(PCT Rule 43bis.1)				
			Date of mailing (day/month/year) 21 JAN 2005				
Applicant's or agent's file reference			FOR FURTHER ACTION See paragraph 2 below				
BRUN-001XQ9	9						
International app	lication No.	International filing date	(day/month/year)	Priority date (day/month/year)			
PCT/US04/1821		08 June 2004 (08.06.200		09 June 2003 (09.06.2003)			
International Pat	ent Classification (IPC)	or both national classificati	ion and IPC				
	5/02, 15/06, 15/32 and U	S Cl.: 367/99, 100, 131					
Applicant							
BROWN UNIV	ERSITY						
1. This opinion contains indications relating to the following items:							
Box No. I Basis of the opinion							
Box No. II Priority							
Box	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box	Box No. IV Lack of unity of invention						
Вох	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box	Box No. VI Certain documents cited						
Box	Box No. VII Certain defects in the international application						
Box	Box No. VIII Certain observations on the international application						
2. FURTHEI	RACTION						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.							
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.							
For further options, see Form PCT/ISA/220.							
3. For further details, see notes to Form PCT/ISA/220.							
Name and mailin	g address of the ISA/ US	3	Authorized officer	1 1 1			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		lan J. Lobo	Jemys If				

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Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/18219

Box No. 1 Basis of this opinion	_				
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1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
a. type of material					
a sequence listing	1				
table(s) related to the sequence listing					
b. format of material	l				
in written format					
in computer readable form					
c. time of filing/furnishing	ŀ				
contained in international application as filed.	contained in international application as filed.				
filed together with the international application in computer readable form.	filed together with the international application in computer readable form.				
furnished subsequently to this Authority for the purposes of search.					
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Additional comments:					
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/18219

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Statement	ions supporting such successions	· · · · · · · · · · · · · · · · · · ·					
Novelty (N)	Claims 1-33	YES					
rioversy (iv)	Claims NONE						
	Chima 1 22	YES					
Inventive step (IS)	Claims <u>1-33</u> Claims <u>NONE</u>	YES					
Industrial applicability (IA)	Claims 1-33	YES _ NO					
	Claims NONE	NO					
2. Citations and explanations:							
Claims 1-33 the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a data analyzer that receives cross-correlation output data and analyzes the output data for determining variability of cross correlation peaks within each frequency sub-band, for identifying the lowest frequency sub-band having a corresponding low peak ambiguity and estimating the signal-to-noise ratio based upon the peak variability and center frequency of an identified frequency sub-band and a predetermined frequency range.							
Claims 1-33 the criteria set out in PCT Article 33(4), and thus meet the industrial applicability because the subject matter claimed can be made or used in industry.							
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